

ABSTRACT

Provided is a catalyst for selective oxidation of CO gas in a gas of essentially hydrogen, and a method for producing the catalyst. The catalyst is highly active in a relatively high temperature range. The catalyst is for selectively oxidizing CO gas with hydrogen, and this carries ruthenium held on a carrier of titania and alumina, or carries ruthenium with an alkali metal and/or an alkaline earth metal held thereon. For producing the catalyst, a solution containing ruthenium and an alkali metal and/or an alkaline earth metal is applied to the carrier.